

(Original) 56. The system for transferring digital data through television signals in claim 54, wherein the pre-defined object is a logo.

5 (Original) 57. The system for transferring digital data through television signals in claim 54, wherein the pre-defined object is a score board.

(Original) 58. The system for transferring digital data through television signals in claim 54, wherein the pre-defined object is a caption frame.

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REMARKS

In response to the Examiner's Official Action to The Application (US. Patent Application No. 09/539,309) mailed on May 30, 2006, The applicant hereby respectfully request reconsideration claims 49-58.

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An item-by-item response is provided in the following:

1. Claim Rejections -35 USC. § 102

20 The Examiner rejects Claims 49-51, 54-56 under 35 U.S.C. 102(e) as being anticipated by Van Gestel et al in US 6,665,873 (The Reference).

25 The Reference disclosed methods to solve a particular problem for interactive television programs (col. 1 lines 29-48). The Reference determines whether a receiver is qualified to use a special mode by sending identification signals in the format of a logo to the receiver (col. 1 lines 54-61) (col. 5 lines 55-60). The logo is the information that is sent to the receiver, not the carrier used to send data (col. 2 lines 33-40) (col. 3 lines 33-48) (FIGs. 1-6). The logo signals are inserted into television signals through conventional methods that are different from methods in
30 The Application. For example, the signals are inserted into the blank intervals (col. 3 lines 51-54) (col. 4 lines 2-5). The data analyses of The

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Reference are to extract the logo and to compare the logo to activate special mode of interactive TV program (col. 4 line 62 to col. 5 line 2).

5 As summary, The Reference disclosed methods that send logo as identification symbol to activate special modes for interactive TV programs (col. 6, claims, figures). The logo in The Reference is the information, not the data carrier.

10 The "pre-defined object data transfer" method of The Application modifies the television signals used to carry a pre-defined object (such as a logo, a score board, or a caption frame) in order to carry data. The same television signal used to carry the logo image is modulated to carry data. The logo is not the data; the logo is used as the data-carrier. The TV
15 signals carrying the logo are chosen for data transfer because the logo typically is "low contrast area" with known pattern; it has nothing to do with special modes of interactive TV. The only condition when The Application can be the same as The Reference is when the data carried by the logo represent the same logo. Such condition is not realistic because
20 that would be redundant. The data sent by The Application are general purpose data that are not confined to be identification signals used to activate special interactive TV modes.

25 As a summary, The Application uses the television signals that carry logo image to carry data. The logo is not the data, instead, the logo is the data-carrier.

The Application is therefore completely different from The Reference.

30 The applicant believes that the original claims 49-58 are correct. However, the constraints of "wherein the data carried by said data-carrying television signals are different from data representing said pre-defined object(s)" are added to claim 49 and claim 54 to remove the only condition when The Application serves the same function as The
35 Reference.

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2. Claim Rejections -35 USC. § 103

5 The Examiner rejects Claims 52, 53 , 57, 58 under 35 U.S.C. 103 as being obvious over Van Gestel et al in US 6,665,873.

10 The Reference disclosed methods to solve a particular problem for interactive television programs. The Reference determines whether a receiver is qualified to use a special mode by sending identification signals in the format of a logo to the receiver (col. 1 lines 54-61) (col. 5 lines 55-60). The logo is the data that is sent to the receiver, not the data-carrier (col. 2 lines 33-40) (col. 3 lines 33-48).

15 The Application used the television signals that carry score board or caption frame to carry data. The score board or caption frame are not the data; they are the data-carrier.

The Application is therefore completely different from The Reference.

20 With the above clarifications and discussions, the applicant respectfully proposes claims 49-58 to be re-considered. The applicant also would appreciate Examiner's inputs on claim amendments.

25 Respectfully submitted

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